

Post-Doctoral Position – Data Observation Network for Earth (DataONE)

DataONE, which is headquartered at the University of New Mexico (UNM), is recruiting a post-doctoral associate to work with the Data Semantics and Integration Working Group of the DataONE project. This is a full-time, 12 – month position that is renewable up to three years. The physical location of where the Post-Doctoral Associate is located is flexible. Applications will be accepted starting immediately and will be accepted until the position is filled.

The Data Observation Network for Earth (DataONE; <http://dataone.org>) is poised to be the foundation of new innovative environmental science through a distributed framework and sustainable cyberinfrastructure that meets the needs of science and society for open, persistent, robust, and secure access to well-described and easily discovered Earth observational data. Supported by the U.S. National Science Foundation, DataONE will ensure the preservation and access to multi-scale, multi-discipline, and multi-national science data. DataONE seeks to transcend domain boundaries, making biological data available from genome to ecosystem and making environmental data available from atmospheric, ecological, hydrological, and other earth science sources. This broad disciplinary focus brings many challenges in the description, publication, discovery, and integration of datasets across multiple disciplines.

The post-doctoral researcher will work with an interdisciplinary team of researchers from across the country in designing and implementing semantic technologies within the DataONE Cyberinfrastructure. Semantic technologies include a broad range of standards, methods, and tools that will enable DataONE to sustainably achieve its objectives for seamless publication, discovery, and integration of Earth observational data, thereby enabling a broader range of data-driven science and the kinds of cross-disciplinary science necessary for addressing today's emerging science problems.

Responsibilities: The successful candidate will work as an integral member of the DataONE Data Semantics and Integration Working Group to develop and document use cases; evaluate standards, tools, and technologies; participate in the development of a roadmap for research and implementation of semantic technologies within the DataONE cyberinfrastructure; facilitate collaboration with other relevant research projects and efforts; and complete targeted prototyping and technology implementation tasks in collaboration with the DataONE Core Cyberinfrastructure Team (CCIT).

Required Qualifications: PhD completed or near completion in Computer Science, Information Science, Earth/Environmental Science, or equivalent. Interest in semantic approaches to data discovery and integration and be broadly familiar with data in the earth/geosciences domain. Demonstrated excellent communication skills through a record of publication and public presentation and a strong interest in advancing the scientific endeavor through facilitating better access to and integration of scientific data. The successful candidate will be expected to engage in professional development training opportunities and seminars. The successful candidate will also be expected to travel several times per year to Working Group meetings and for presentation of DataONE work at professional conferences.

Preferred Qualifications: Interest in and experience with earth or environmental sciences and the types of data used within these disciplines.

The post-doc will work under the direct supervision of Dr. Deborah McGuinness (RPI) and Dr. William Michener (UNM). Interested candidates should send a CV, a brief statement of interest in this position, and a list 3 references and their contact information to Rebecca Koskela (Executive Director of DataONE; rkoskela@unm.edu), DataONE, University of New Mexico, 1312 Basehart Drive SE, MSC04 2815, Albuquerque, NM 87106. Inquiries for further information about the position are welcome. Salary and benefits for this position are competitive and commensurate with the applicant's qualifications and experience.